

Title (en)

ABRASIVE PARTICLES, ABRASIVE ARTICLES, AND METHODS OF MAKING AND USING THE SAME

Title (de)

SCHLEIFPARTIKEL, SCHLEIFARTIKEL UND VERFAHREN ZUR HERSTELLUNG UND VERWENDUNG DAVON

Title (fr)

PARTICULES ABRASIVES, ARTICLES ABRASIFS, LEURS PROCÉDÉS DE PRODUCTION ET D'UTILISATION

Publication

**EP 3110900 A4 20171004 (EN)**

Application

**EP 15756094 A 20150213**

Priority

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- US 2015015797 W 20150213

Abstract (en)

[origin: WO2015130487A1] Abrasive particles include: 0.50 to 5.00 weight percent of seed particles for alpha-alumina formation selected from the group consisting of alpha-Fe<sub>2</sub>O<sub>3</sub> seed particles, alpha-Al<sub>2</sub>O<sub>3</sub> seed particles, and combinations thereof; 0.50 to 5.00 weight percent of MgO; 0.02 to 0.40 weight percent of Li<sub>2</sub>O or a molar equivalent amount of at least one alkali metal oxide selected from the group consisting of: Na<sub>2</sub>O; K<sub>2</sub>O; combinations of Na<sub>2</sub>O and Li<sub>2</sub>O; combinations of K<sub>2</sub>O and Li<sub>2</sub>O; combinations of Na<sub>2</sub>O and K<sub>2</sub>O; and combinations of Li<sub>2</sub>O, Na<sub>2</sub>O, and K<sub>2</sub>O; and 91.08 to 99.48 weight percent of Al<sub>2</sub>O<sub>3</sub>. Methods of making the abrasive particles and abrasive articles incorporating them are also disclosed.

IPC 8 full level

**C09K 3/14** (2006.01); **B24D 11/00** (2006.01); **B24D 11/02** (2006.01); **C04B 35/10** (2006.01); **C04B 35/111** (2006.01); **C04B 35/626** (2006.01); **C04B 35/64** (2006.01)

CPC (source: EP US)

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Citation (search report)

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- [A] WO 9700836 A1 19970109 - MINNESOTA MINING & MFG [US]
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Designated contracting state (EPC)

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